

Operator Preventive Maintenance Checks and Services

6530-00-926-2151

Sterilizer, Surgical Dressing 16X36 in.

[B-Before Operation, D-During Operation, A-After Operation, Q-Quarterly, and S-Semiannually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	B, A	Sterilizer a. Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories List are on hand. b. Inspect the unit for obvious signs of damage such as cracks, dents, leaks, or broken components.	The shelves are missing. Gasket is torn, sight-glass is broken, or legs cannot be locked into their supporting position.
2	B	Sterilizer Operational Check a. Ensure that the unit is set up and assembled properly as directed by the manufacturer's literature. b. Remove the chamber drain-plug and inspect for lint and sediment from the strainer. c. Inspect and clean the interior surfaces of the chamber, with mild detergent and water, before heating. Clean the shelves in the same manner. CAUTION: DO NOT USE STEEL WOOL OR ABRASIVE CLEANERS. d. Inspect door and door gasket e. Inspect sight glass for mineral deposits. f. Inspect fill washer.	The sterilizer cannot be assembled properly. Built-up sediment cannot be removed and prevents the chamber from draining. Chamber does not hold pressure. Door does not seal. Sight glass is broken or mineral deposits obscure water level in sight glass. Fill washer is missing.
3	B, D	Electrical Operations Ensure that the frame of the sterilizer is adequately grounded before operating on electrical power as directed by the manufacturer's literature. Seek assistance from unit medical maintenance section if necessary.	Unit is not grounded.
4	B	Sterilizer Jacket a. Turn operating valve to sterilize. This opens an escape route for trapped air. b. Open drain valve to allow for a lower air escape route. c. Fill jacket with water to about ½ mark. d. Close drain valve when water flows freely without burping. e. Ensure that the water level viewed in the sight glass is at least at the ¼ mark as directed by the manufacturer's literature.	Jacket cannot be filled with water. Jacket cannot be filled with water.

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		<p>WARNING: LIFT THE RELIEF HANDLE OF THE SAFETY VALVE OR TURN OPERATING VALVE TO THE DRY POSITION TO RELEASE ANY PRESSURE IN THE JACKET BEFORE REMOVING THE PLUG FROM THE FILLING FUNNEL. FILL THE STERILIZER JACKET WITH THE PUREST WATER AVAILABLE AND INSPECT FOR WATER LEAKS. ENSURE THE WATER IN THE SIGHT GLASS IS AT LEAST AT THE ¼ MARK.</p> <p>f. Verify operation of the pressure control switch knob. Turn the pressure control knob to the maximum clockwise position.</p> <p>g. Verify operation of the operating valve. Ensure that the operating valve is in the OFF position.</p> <p>h. Turn the heat switch on and verify that the red pilot light is glowing.</p> <p>i. Turn pressure valve fully counterclockwise to open the low-pressure relief valve.</p> <p>j. When pressure reaches 18 – 20 psi, the low-pressure valve should release pressure.</p> <p>k. Turn pressure relief valve fully clockwise to take the low-pressure valve out of the system.</p> <p>l. Verify the increase in pressure and test the safety valve by depressing the safety lever.</p> <p>m. When pressure reaches 27 – 32 psi, the high-pressure valve should release pressure.</p> <p>n. Verify that the pressure gauge indicates the desired pressure of 18 psi for 250 degrees F or 29 psi for 270 degrees F.</p> <p>o. Turn the pressure control switch knob slowly counterclockwise until the pilot light goes out. Verify that the pressure control cycles and maintains the selected pressure.</p>	<p>Jacket leaks or cannot be filled with water.</p> <p>Pressure control switch does not operate.</p> <p>Operating valve does not function.</p> <p>Heating elements do not energize.</p> <p>Safety valve does not activate.</p> <p>Safety valve does not activate.</p> <p>Safety valve does not activate.</p> <p>Desired steam pressure cannot be reached or pressure gauge is faulty.</p>

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		<p>NOTE: A pre-heat period of 10 to 15 minutes is recommended to allow the pressure to stabilize. There are no markings or calibration on the pressure control switch since temperature is a function of absolute pressure rather than gauge pressure. Depending on altitude and atmospheric conditions, reaching 270° F may require between 27 and 32 psi gauge pressure. The pressure switch must be adjusted to the pressure, which will give the desired temperature.</p> <p>p. Load the sterilizer and verify proper operation.</p> <p>CAUTION: IN THE EVENT THAT WATER IN THE JACKET RUNS LOW, THE WATER CUT-OFF WILL INTERRUPT THE POWER SUPPLY TO THE HEATERS. IF THIS OCCURS, LIFT THE RELIEF HANDLE ON THE SAFETY VALVE TO RELEASE ANY PRESSURE IN THE JACKET BEFORE REMOVING PLUG FROM FILLING FUNNEL. WAIT UNTIL INTERNAL PARTS COOL BELOW THE BOILING POINT AND REFILL THE JACKET WITH WATER AND PRESS THE RESET BUTTON (LOCATED UNDER THE HEATER BOX). PROCEED WITH THE REGULAR OPERATING CYCLE FROM THE BEGINNING.</p> <p>q. Close the chamber door.</p> <p>r. Turn the operating valve to sterilize.</p> <p>s. Let the chamber pressurize.</p> <p>t. Check for leaks. The steam trap may stick open (rap with a solid object to release it).</p> <p>u. Set the timer.</p> <p>v. Check that the pilot light cycles on and off.</p> <p>w. Check that the chamber maintains pressure.</p> <p>x. When the timer goes off, turn the operating valve to "DRY."</p> <p>y. Check that the pressure goes to about -5 psi for about 15 minutes before the pressure releases and the door can be opened.</p>	<p>Pressure control does not operate.</p> <p>Door does not seal.</p> <p>Chamber leaks or trap fails to close.</p> <p>Desired pressure cannot be maintained.</p> <p>Sterilizer chamber does not release pressure.</p> <p>Sterilizer chamber does not pull a vacuum.</p>

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5	B, D	Gasoline Heat Note: No longer authorized for Department of the Defense use.	Sterilizer does not operate.
6	B, D	Direct Steam Operation a. Conduct direct steam operation as directed by TM 8-6530-004-24&P. b. Load the sterilizer and verify proper operation. WARNING: TO PREVENT POSSIBLE INJURY TO PERSONNEL RESULTING FROM BURSTING BOTTLES AND HOT FLUID, USE ONLY BOROSILICATE (PYREX) FLASKS WITH VENTED CLOSURES FOR STERILIZING LIQUIDS.	